Abstract

Voice alteration is the conversion of one speech signal into other, preserving the source content. For Voice alteration, two main parameters of speech must be considered viz. Static and Dynamic. In this paper, only static parameters are considered. The LP coefficients of source and target speech are extracted using LP analysis. The cross mapping of the extracted parameters is achieved by modifying source parameters in line with the target parameters using TD-PSOLA. Results illustrate that the TD-PSOLA method is reliable and efficient approach for voice alteration. The voice alteration system thus developed can contribute greatly to the Medical and Entertainment Industry where specific voice is essential.

References

- Kazi, Rehan A., Vyas M. N. Prasad, Jeeve Kanagalingam, Christopher M. Nutting, Peter Clarke, Peter Rhys-Evans, and Kevin J. Harrington, "Assessment of the Formant Frequencies in Normal and Laryngectomy Individuals Using Linear Predictive Coding".
Effective Implementation of Static Voice Alteration

Journal of Voice 21, no. 6:661-668.

Index Terms

Computer Science Speech Processing

Keywords

Cross mapping formants pitch static voice